

**AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

**LISTING OF CLAIMS**

1. (Currently Amended) An optical recording medium having a data structure for managing reproduction of video data having multiple playback paths in a title, comprising:

a data directory storing a plurality of clip files of the video data having the multiple playback paths, each clip file including a plurality of data packets of the video data, each clip file being associated with one path of the multiple playback paths, each data packet having a packet number differentiating the data packet from other data packets in the plurality of data packets;

a management directory storing management information for managing reproduction of the video data having the multiple playback paths, the management information including a plurality of clip information files, each clip file being associated with one of the clip information files, the clip information file providing at least one map, the map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file; and

a playlist directory storing a playlist file associated with the multiple playback paths, the playlist file including at least one playitem identifying a same-playing interval from in-time until out-time for playback of the video data, each playitem

identifying a same playing interval in each clip file of the plurality of clip files associated with the multiple playback paths for the playlist file, the playitem identifying clip information files associated with the clip files, the playlist file storing connection information between a previous playitem and a current playitem,

wherein the playitem indicates whether a portion of the video data represents the multiple playback paths.

2. (Previously Presented) The optical recording medium of claim 1, wherein a group of playlist files is associated with each playback path.

3-5. (Canceled)

6. (Previously Presented) The optical recording medium of claim 1, further comprising:

navigation information managing the playlist file to be reproduced.

7. (Previously Presented) The optical recording medium of claim 6, wherein the different playback paths are related to different stories.

8. (Canceled)

9. (Previously Presented) The optical recording medium of claim 1, wherein the video data for each playback path is stored in a different clip file.

10-15. (Cancelled)

16. (Currently Amended) A method of reproducing a data structure for managing reproduction of video data having multiple playback paths in a title from a recording medium, the method comprising:

reproducing a playlist file associated with the multiple playback paths, the playlist file from the recording medium identifying a ~~same~~ playing interval from in-time until out-time for playback of the video data, each playitem identifying a same playing interval in ~~in each clip file of the~~ plurality of clip files associated with the multiple playback paths for the playlist file;

reproducing management information for managing reproduction of the video data having the multiple playback paths from a management area of the recording medium; and

reproducing at least one clip file of the video data having the multiple playback paths from a specific entry point identified by ~~the~~ a packet number based on the playlist file and the management information,

wherein each clip file including a plurality of data packets of the video data, each clip file being associated with one path of the multiple playback paths, each data packet having a packet number differentiating the data packet from the other data packets in plurality of data packets, the playitem identifying clip information files associated with the clip files, the playlist file storing connection information between a previous playitem and a current playitem,

the management information including the plurality of clip information files, each clip file being associated with one of the clip information files, the clip information file providing at least one map, the map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at

least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file,

wherein the playitem indicates whether a portion of the video data represents the multiple playback paths.

17. (Previously Presented) The method of claim 16, wherein the reproducing step reproduces a group of playlist files based on navigation information for managing the playlist files.

18. (Currently Amended) A method of recording a data structure for managing reproduction of at least video data having multiple playback paths in a title on a recording medium, the method comprising:

recording a plurality of clip files of the video data having multiple paths on the recording medium, each clip file including a plurality of data packets of the video data, each clip file being associated with one path of the multiple playback paths, each data packet having a packet number differentiating the data packet from other data packets in the plurality of data packets;

recording management information for managing reproduction of the video data of the recording medium, the management information including a plurality of clip information files, each clip file being associated with one of the clip information files, the clip information file providing at least one map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file; and

recording a playlist file associated with the multiple playback paths, the playlist

file including at least one playitem identifying a ~~same~~-playing interval from in-time until out-time for playback of the video data, each playitem identifying a same playing interval in each clip file of the plurality of clip files associated with the multiple playback paths for the playlist file, the playitem identifying clip information files associated with the clip files, the playlist file storing connection information between a previous playitem and a current playitem,

wherein the playitem indicates whether a portion of the video data represents the multiple playback paths.

19. (Cancelled)

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least video data having multiple playback paths in a title, comprising:

an optical pickup configured to record data on a recording medium; and

a controller, operably coupled to the optical pickup, configured to control the optical pickup to record a plurality of clip files of the video data having the multiple playback paths on the recording medium, each clip file including a plurality of data packets of the video data, each clip file being associated with one path of the multiple playback paths, each data packet having a packet number differentiating the data packet from other data packets in the plurality of data packets, the controller configured to control the optical pickup to record management information for managing reproduction of the video data having the multiple playback paths on the recording medium, the management information including a plurality of clip information files, each clip file being associated with one of the clip information files,

the clip information file providing at least one map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file, the controller configured to control the optical pickup to record a playlist file associated with the multiple playback paths on the recording medium, the playlist file including at least one playitem identifying a ~~same playing interval from in-time until out-time for playback of the video data, each playitem identifying a same playing interval in each clip file of the plurality of clip files~~ associated with the multiple playback paths for the playlist file, and the playitem identifying the clip information files associated with the clip files, the playlist file storing connection information between a previous playitem and a current playitem,

wherein the playitem indicates whether a portion of the video data represents the multiple playback paths.

21. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least video data having multiple playback paths in a title, comprising:

an optical pickup configured to reproduce data recorded on a recording medium; and

a controller, operably coupled to the optical pickup, configured to control the optical pickup to reproduce a playlist file associated with the multiple playback paths from the recording medium, the playlist file including at least one playitem identifying a ~~same~~ playing interval from an in-time until an out-time for playback of the video data, each playitem identifying a same playing interval in each clip file of the plurality of clip files associated with the multiple playback paths for the playlist file,

the controller configured to control the optical pickup to reproduce management information for managing reproduction of the video data having the multiple playback paths from a management area of the recording medium,

the controller configured to control the optical pickup to reproduce at least one clip file of the video data having the multiple playback paths from a specific entry point identified by ~~the~~ a packet number based on the playlist file and the management information,

wherein each clip file including a plurality of data packets of the video data, each clip file being associated with one path of the multiple playback paths, each data packet having a packet number differentiating the data packet from the other data packets in the plurality of data packets, the playitem identifying clip information files associated with the clip files, the playlist file storing connection information between a previous playitem and a current playitem,

the management information including the plurality of clip information files, each clip file being associated with one of the clip information files, the clip information file providing at least one map, the map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file,

wherein the playitem indicates whether a portion of the video data represents the multiple playback paths.

22. (Cancelled)

23. (Previously Presented) The apparatus of claim 20, wherein a group of

playlist files is associated with each playback path.

24. (Previously Presented) The apparatus of claim 23, wherein navigation information is stored on the recording medium, the navigation information for managing the playlist file.

25. (Previously Presented) The apparatus of claim 21, wherein a group of playlist files is associated with each playback path.

26. (Previously Presented) The apparatus of claim 25, wherein navigation information is stored on the recording medium, the navigation information for managing the playlist file.

27-28.(Cancelled)

29. (Previously Presented) The method of claim 16, further comprising:  
reproducing navigation information stored on the recording medium, the navigation information for managing the playlist file.

30. (Previously Presented) The method of claim 29, wherein the reproducing at least one playlist file reproduces a group of playlist files based on the navigation information.

31. (Cancelled)



32. (Previously Presented) The method of claim 18, further comprising:  
recording navigation information for managing the playlist file.

33. (Previously Presented) The method of claim 32, wherein the recording at  
least one playlist file records a group of playlist files based on the navigation  
information.

34-36.(Cancelled)

37. (Previously Presented) The optical recording medium of claim 1, wherein  
the at least one clip file is linked to more than one of the plurality of playlist files.

38-43.(Cancelled)

44. (Previously Presented) The optical recording medium of claim 1, wherein the  
clip file includes source packets, the source packets including a header and a transport  
packet, the transport packet including a packet identifier (PID), the source packet  
including a source packet number indicating the address in the clip file.

45. (New) The optical recording medium of claim 1, wherein the playlist file  
includes playback information indicating a playback type of the playitem, the playback  
type including sequential playback of the playitem.